

	Type	L #	Hits	Search Text	DBs	Time Stamp	Comments
1	BRS	L2	9	wu-charles\$.in.	EPO; JPO; DERW ENT; IBM_ TDB	2003/05/15 18:23	Rev'd images
2	BRS	L1	3	wu-charles\$.in. and @pd>20021102	USPA T; US-P GPUB	2003/05/15 18:23	Rev'd images
3	BRS	L4	0	((file or database or object) adj1 synchroni\$6) same detach\$5) and @pd>20021102	USPA T; US-P GPUB	2003/05/15 19:09	
4	BRS	L3	4	((file or database or object) adj1 synchroni\$6) same remov\$5) and @pd>20021102	USPA T; US-P GPUB	2003/05/15 18:26	Rev'd kwic + images
5	BRS	L5	2	5928329.URPN. and @pd>20021102	USPA T	2003/05/15 18:26	Rev'd images
6	BRS	L6	0	((file or database or object) adj1 synchroni\$6) same (memory adj1 card\$1)) and @pd>20021102	USPA T; US-P GPUB	2003/05/15 18:34	
7	BRS	L7	13	((file or database or object) adj1 synchroni\$6) and (remov\$5 near5 (memory or memories or disk or disks or disc or discs or storage)) and @pd>20021102	USPA T; US-P GPUB	2003/05/15 18:35	Rev'd kwic + images
8	BRS	L9	10	(palmtop\$1 or handheld\$1) and (memory adj1 card\$1) and @pd>20021102 and @ad<19990604	USPA T; US-P GPUB	2003/05/15 18:35	Rev'd kwic + images
9	BRS	L8	28	((file or database or object) near5 synchroni\$6) same remov\$5) and @pd>20021102	USPA T; US-P GPUB	2003/05/15 19:07	Rev'd kwic + images
10	IS&R	L12	9732	((709/220-223,217,219) or (707/10,201,203)).CCL S.	USPA T; US-P GPUB	2003/05/15 18:55	

	Error Definition	Er ro rs
1		0
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11	BRS	L14	88	L12 and @pd>20021102 and @ad<19981012	USPA T; US-P GPUB	2003/05/15 18:57	Rev'd images
12	BRS	L16	18	l15 not L8	USPA T; US-P GPUB	2003/05/15 19:06	
13	BRS	L15	18	((file or database or object) near5 synchroni\$6) and remov\$5) and @pd>20021102 and @ad<19981012	USPA T; US-P GPUB	2003/05/15 19:05	Rev'd kwic + images
14	BRS	L18	1646	((data or information) near5 synchroni\$6) same (remov\$5 or detach\$5 or dock\$5)) and @ad<19981012	USPA T; US-P GPUB	2003/05/15 19:22	
15	BRS	L19	17	((file or files or database or object) near5 synchroni\$6) same (dock\$5)) and @ad<19981012	USPA T; US-P GPUB	2003/05/15 19:10	Rev'd kwic + images
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18	BRS	L22	37	((data or information) near5 synchroni\$6) same (remov\$5 or detach\$5 or dock\$5)) and @pd<19981012 and (G06F\$).ipc.	EPO; JPO; DERW ENT; IBM- TDB	2003/05/15 19:51	Rev'd kwic + images

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19	BRS	L23	0	((files) near5 synchroni\$6) same (remov\$5 or detach\$5 or dock\$5)) and @pd<19981012 and (G06F\$).ipc.	EPO; JPO; DERW ENT; IBM_ TDB	2003/05/1 5 19:54	

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Novell Technical Information Document

... integrating GroupWise with the 3COM PalmPilot Professional. This solution cuts the dependency on the PalmPilot **HotSynch** process with a PC. First I will talk about this solution in a brief manner ...
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Macworld: Now Synchronize

Disastrous PDA-to-PIM Link The U.S. Robotics Palm Pilot (see Reviews, April 1997) is a terrific PDA ... Home Office Web and Email Web Design **Now Synchronize** Disastrous PDA-to-PIM Link The U.S. ...

www.macworld.com/1997/08/reviews/3835.html

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Macworld: Mac's Best Friend

New Software Makes the PalmPilot Your Mac's Ideal Companion It's easy to understand why 3Com's ... result was a slow, RAM-hungry program called **Now Synchronize**, which is so buggy that it's been ...

www.macworld.com/1998/08/features/4408.html

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www.bobstewart.net/resume.htm

Calvin's Pilot FAQ - Pilot News

... Now Software is selling the PalmPilot bundled with Now Up-to-Date & Contact, **Now Synchronize** and a Pilot MacPac, through April 30th. For more details, see their Now Synchronize Page. The new domain ...

www.ingrid.org/pilotfaq/970411/jp.6.19/news.htm

Too Many Greens, by Master Melora

... the best! They used to tell me I was building a green When I'd impressed four or five But they **now synchronize** When it's time to rise! I'm amazed I'm alive.... Once I oiled my dragon. When I was ...

www.xmission.com/~baal/hh/songs/greens_melora.html

Changi Manual: What's New

... well as for lists of hosts. Catching-up With Remote A new Chanx mode option -mC will **now synchronize** the watermark file with the remote newsserver without downloading a single article. This option ...

www.frukt.org/Changi/whatsnew.html

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<http://www.altavista.com/web/results?n=aaq&avkw=xytx&aqmode=s&aqa=&a=now+synchronize&aqo=&aqn=>.

... them with one another. The Digital Timepiece offers several synchronization firsts. For example, users can **now synchronize** a stack of Alesis ADAT™ recorders with a stack of Tascam DA-88™ recorders ...

www.motu.com/english/other/press/dtp.pdf

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www.monitor.ca/monitor/issues/vol2iss12/newstuff.html

Synchronizing Replicas

... on it to pass these changes on to other replicas the replica set. Note&&&You can **now synchronize** replicas over the Internet. Before you can synchronize over the Internet, you must configure your ...

intranet.mathtechinc.com/doc/bldapps/chapters/ba20_7.htm

TidBITS

Date: Mon, 5 Jan 1998 22:54:09 -0800 From: TidBITS Editors <editors@tidbits.com>
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www.access.ch/power/infoservices/TidBits/TidBits411.html

New MacWeek

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... that Now is working on a revolutionary technology along the lines of the **Now Synchronize** data synchronization software. Qualcomm must have been attracted by the thought of synchronizing email and ...

bystander.net/pilot/archive/issue3.html

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... PDAs. Examples of developers taking advantage of this technology include Now Software with their **Now Synchronize** solution and LandWare with Sync+ for Microsoft Schedule+. -30- Apple, the Apple ...

www.cc.gatech.edu/grads/g/Yusuf.Goolamab...c2000/0045.html

3rd Party Soft.

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... Contact Information 3rd Party Software for Newton 2.0 — Apple Confidential Personal Productivity **Now Synchronize** — **Now Synchronize** provides the ability to share the same calendar and address book ...

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... data files such as GoldMine's lookups, field definitions and resources. You can **now synchronize** record deletions, as well as customizations and data structure changes. Further, GoldMine now ...

www.softland.com.ar/info/goldmine/techinfo/98q1FYI.PDF

W. H. Calvin's THE CEREBRAL SYMPHONY (ch.11. A Whole New Ball Game:

Bootstrapping Thought Through Throwing)

Our ballistic recreations, and how dogs train us. Reaction time problem with hammering,

http://www.altavista.com/web/results?n=aq&avkw=xytx&aqmode=s&aqa=&a=now+synchronize&aqo=&aqn=.

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Palm OS® Software Overviews

Palm OS Software 5.2 Overview

Development overview of Palm OS 5.2 and 4.1.2.




Palm OS Software 5 Overview

Development overview of Palm OS 5.




Palm OS Software 4.1 Overview

Overview of bug fixes incorporated into Palm OS 4.1. Note that Palm OS 4.1 is essentially the same as version 4.0 and that no new features have been added.




Palm OS Software 4.0 Overview

Development overview of Palm OS 4.0.




Palm OS Software 3.5 Overview

The development overview predates the final documentation and tools, but is a useful introduction. Also, see the **Top Issues** when developing for Palm OS 3.5.




Palm OS® Documentation

Creating Content for Web Browser (8/30/2002)

Describes how to create small screen content for Palm OS 5 Web Browser.

Constructor for Palm OS (11/14/2002)

Describes how to use Constructor for Palm OS to build graphical user interfaces for Palm OS applications.

Front-End Processor Developer's Guide (12/06/2002)

Describes how to create a language front-end processor for Palm Powered™ handhelds, and documents how applications can interface with front-end processors.

Integrating Palm OS Applications with Web Browser (8/30/2002)

Describes how Palm OS applications can interact with Palm OS 5 Web Browser.

Palm Desktop Extensibility Framework (11/11/2002)

Describes how to write software for the Palm Desktop Extensibility Framework. Includes step-by-step descriptions of how to develop add-ins with Visual Basic and C++, and how to develop extensions with C++.



Palm File Format Specification (5/1/2001)

Provides the data layout specifications of installable files (PRC), databases (PDB), and web clipping applications (PQA).

Palm OS Companion and Reference (12/12/2002)

Provides extensive conceptual and "how-to" development information in the Companion, and official reference information of Palm OS functions and data structures in the Reference.

Palm OS Development Tools Guide (11/14/2002)

Describes Palm tools that can be used to develop, test, and debug Palm OS applications: Palm Simulator, Palm Debugger, Palm Reporter, console window, and resource overlay tools.

Palm OS 5 ARM Programming (5/31/2002)

Describes how to use ARM subroutines to improve the performance of Palm OS 5 applications.



Palm OS User Interface Guidelines (12/11/2002)

Describes how to design applications for Palm Powered™ handhelds so that they conform to the Palm OS user interface guidelines.



Testing with Palm OS Simulator (11/14/2002)

Describes how to use Palm OS Simulator to test your Palm OS applications.



Using Palm OS Emulator (12/16/2002)

Describes how to use Palm OS Emulator to test your Palm OS applications.



Web Clipping Developer's Guide (5/1/2001)

Describes how to develop **wireless applications using "lightweight" HTML**.



Zen of Palm (12/06/2002)

Describes design philosophies and practices for developing Palm OS applications.



Conduit Documentation

Conduit Documentation - Windows (7/1/2002)

Provides extensive conceptual and reference information on developing conduits to exchange and synchronize data between a Windows application and a Palm Powered™ handheld.



Conduit Documentation - Mac OS (6/19/2002)

Provides extensive conceptual and reference information on developing conduits to exchange and synchronize data between a Mac OS application and a Palm Powered™ handheld.



Additional Information

Palm OS Programming Recipes

Palm OS Programming recipes are technical articles with step-by-step explanations describing how to perform specific tasks related to Palm OS programming. They are different from existing sample code because they have step-by-step explanations about specific subjects.



Hardware Development

See the **Hardware Development** pages, including the Hardware Comparison Matrix.

Recommended Reading

Books and articles from experts in the field.





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Accessing a Handheld Database with the Sync Manager API

This recipe shows you how to access a handheld database by calling the Sync Manager API in your conduit. The Sync Manager API is a low-level interface with which you can implement your own synchronization logic. (Alternatively, you may use one of the conduit frameworks, which implement Palm's standard synchronization logic, provided in the Palm™ Conduit Development Kit.)

This recipe accesses the Date Book database on the handheld using Sync Manager API functions in the following steps:

1. Call `SyncRegisterConduit` to register the conduit for Sync Manager access.
2. Call `SyncOpenDB` to open the handheld database (or optionally create the database).
3. Call Sync Manager API functions to access and edit the handheld database.
4. Call `SyncCloseDB` to allow other conduits access to handheld databases.
5. Call `SyncUnRegisterConduit` to release Sync Manager access to other conduits.

1. Call `SyncRegisterConduit`

The following code shows declarations used in this and the following steps and then shows how to register your conduit with the Sync Manager:

```
#define DB_NAME "DatebookDB"
#define LOG_STRING "%s returned %d"

CONDHANDLE hSyncHandle; // handle to use Sync Manager functions
BYTE hDataBase;          // handle to the remote database
WORD rNumRecs;           // number of records in the database

// First, we must register the conduit to use Sync Manager calls.
if (retval = SyncRegisterConduit(hSyncHandle))
{
    // SyncRegisterConduit failed: Handle the error code.
    return (retval);
}
```

2. Call `SyncOpenDB`

You must open (or create) a database before you can access it.

```
// Open the DatebookDB database.
if (retval = SyncOpenDB(DB_NAME, 0, hDataBase,
    (eDbRead|eDbWrite|eDbShowSecret)))
{
    // SyncOpenDB failed: Handle the error code.
    // TODO - If the database does not exist, create it.
    return (retval);
}
```

3. Call Sync Manager API Functions

With the database open, you can now access it. The code below shows a simple example of getting the number of records in the database and printing the result to the `HotSync(R)` log. At this point, you can implement your synchronization logic.

```
// Retrieve the record count for the DatebookDB.
```

```
if (retval = SyncGetDBRecordCount(hDataBase, lNumRecs))
{
    // SyncGetDBRecordCount failed: Handle the error code.
    return (retval);
}

// The call to SyncGetDBRecordCount was successful, write the
// result to log.
if (retval = LogAddFormattedEntry(slText, true, LOG_STRING,
    "LogAddFormattedEntry", rNumRecs))
{
    // LogAddFormattedEntry failed: Handle the error code.
    return (retval);
}
```

4. Call SyncCloseDB

After you finish with a database, you must close it so that another conduit (or handheld application) can access it.

```
// The Sync Manager allows only one database to be open at a time,
// so close the database.
if (retval = SyncCloseDB(hDataBase))
{
    // SyncCloseDB failed: Handle the error code.
    return (retval);
}
```

5. Call SyncUnRegisterConduit

Before your conduit completes, you must unregister it so that other conduits can call the Sync Manager.

```
// Unregister this conduit so that the next conduit
// can use the Sync Manager.
if (retval = SyncUnRegisterConduit(hSyncHandle))
{
    // SyncUnRegisterConduit failed: Handle the error code.
    return (retval);
}
```

Summary

You should now have a basic understanding of the usage of the Sync Manager API for accessing handheld databases. The next phase of the development process should be the definition of a synchronization strategy and a record format for the handheld and the desktop computer.

NOTE: For the sake of simplicity and focusing on the code sequence, this code only catches errors and returns an error code to the caller function. In your conduit, you must handle the specific error codes returned by each Sync Manager function. The connection with the handheld may be interrupted at any time and, so you must check for errors after each Sync Manager function call. Read about the **Sync Manager error codes** in the *C/C++ Sync Suite Reference* for more information.